Approved For Release 2008/02/04 : CIA-RDP78B04558A000900040074-8

TOP SECRET

PRIORITY

OUT55994

Declassification Review by NGA/DoD

P 190048Z
FM NPIC
[redacted]
AFSSO USAFE
AFSSO PACAF
[redacted]
OPCEN
[redacted]
YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
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T O P S E C R E T [redacted] CITE NPIC 4782.

SUBJECT: CAMERA INFORMATION FOR MISSION 1020-1, 1020-2.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL LENGTH (MM)	609.628	609.539	FWD 54.84 AFT 54.90	FWD 54.37 AFT 54.90	N/A (2) 84.0320	N/A (2) 38.2779
FILTER (WRATTEN NO)	25	21	25	25	NONE	21
APERTURE	F3.5	F3.5	F8.0	F6.8	F1.8	F4.5
SLIT WIDTH (IN.) EXPOSURE (SEC.)	.250	.175	1/100	1/100	2.0	1/500

[redacted]

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GROUP 1
Excluded from automatic downgrading and declassification

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FILM	4404	4404	4404	4404	4401	4400
RESOLUTION (L/MM)	178	201	FWD 95 AFT N/A	FWD 81 AFT 133	(1) 72.67 (2) 73.8	

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.000	.000	.000	.000	.000	.000	.000
AFT UNIT	.003	.002	.000	.000	.000	.002	.003

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	.009	.004	.059	MINUS .013
20 DEGREES	.013	.016	.106	MINUS .031
(TANGENTIAL) MAX VECTOR	.003	.004	.004	.002

4. CAMERA ANGLES

	DEGREES	MINUTES
A. ANGLE BETWEEN MAIN CAMERAS	29	45.93
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS		
PART (1)	N/A	N/A
PART (2)	89	51
C. DEPRESSION ANGLE BETWEEN HORIZON AND MAIN CAMERAS		
FWD STARBOARD	15	13
FWD PORT	15	17
AFT STARBOARD	15	04

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AFT PORT 15 14

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
6	.3587	.0324	5	.1006	.0091	1D1 THRU 16D1
6	.3587	.0324	4	.1139	.0103	18D1 THRU 32D1
5	.3746	.0339	4	.1139	.0103	39D1 THRU 99D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZEBRA TIME) DAY	HOUR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D1	09	23	27	08	1358	39
2D1	10	00	53	16	1133	93
6D1	10	06	55	49	1290	63
6D2	10	06	59	41	1522	117
7D1	10	08	24	52	1234	249
7D2	10	08	33	29	1751	100
8D1	10	09	52	43	1244	213
9AE	10	11	05	25	213	47
10D1	10	13	09	29	2265	144
11D1	10	14	32	52	1874	69
11D2	10	14	35	23	2025	84

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16D1	10	21	58	50
18D1	11	00	48	26
22D1	11	06	52	32
22D2	11	06	56	32
22D3	11	07	00	52
22D4	11	07	08	53
23D1	11	08	22	19
23D2	11	08	28	23
24D1	11	09	51	18
25AE	11	11	02	28
26D1	11	13	02	22
26D2	11	13	06	23
30D1	11	18	55	46
30D2	11	19	00	12
32D1	11	21	56	01
39D1	12	08	19	15
39D2	12	08	20	53
40D1	12	09	48	46
40D2	12	09	50	41
40D3	12	09	53	11
41AE	12	10	59	29
48D1	12	21	52	46
49D1	12	23	13	08
52D1	13	03	49	53

1717	37
1168	189
1464	154
1703	118
1964	70
2444	56
1461	154
1825	84
1417	236
299	47
2106	131
2347	296
1759	47
2025	55
1800	38
1486	55
1583	56
1477	73
1592	47
1743	84
333	47
1834	38
1270	93
1721	55

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53D1	13	05	20	57	1800	54
53D2	13	05	22	44	1907	146
54D1	13	06	48	28	1666	348
55D1	13	08	16	13	1542	120
55D2	13	08	18	53	1701	48
57AE	13	10	55	59	369	49
57M1	13	11	08	34	1124	78
57D1	13	11	28	03	2293	115
57D2	13	11	31	20	2489	114
58D1	13	12	51	12	1899	176
63D1	13	20	20	00	1906	77
65D1	13	23	10	21	1360	77
68D1	14	03	45	01	1692	118
70D1	14	06	46	25	1810	55
71D1	14	08	08	15	1340	50
71D2	14	08	13	01	1625	71
71D3	14	08	14	52	1736	55
71D4	14	08	17	19	1883	131
72D1	14	09	41	56	1579	79
72D2	14	09	43	51	1694	125
73D1	14	11	26	25	2464	175
75D1	14	14	08	59	1457	57
79D1	14	20	16	02	1947	69
84D1	15	03	37	48	1635	106
84D2	15	03	41	03	1830	119

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85D1	15	05	13	07	1973	162
86D1	15	06	42	08	1933	54
86D2	15	06	44	48	2093	77
86D3	15	06	51	05	2470	61
87D1	15	08	03	54	1464	51
87D2	15	08	08	00	1710	230
88D1	15	09	36	35	1643	123
95D1	15	20	10	29	2014	39
98D1	16	00	32	09	1495	76
98D2	16	00	35	01	1667	55
99D1	16	02	07	06	1813	55

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	77883.5109	60023.0567	- - - -
9	144249.9299	39989.4649	.011
16	183447.0579	79186.5861	.007
25	230471.7409	39811.2604	.009
32	269679.8089	79019.3209	.007
41	316694.5949	39634.0973	.010
48	355885.6569	78825.1510	.008
57	402884.4689	39423.9526	.010
63	436770.4529	73309.9287	.008
72	483476.3509	33615.8155	.011
79	522743.1389	72882.5938	.010
88	32934.6359	33544.9906	.011

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95	72077.5599	72687.9041	.010
104	119046.7339	33257.0650	.013
111	158240.9449	72451.2648	.011

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D67/85/80

PART 2 D62/65/65

B. MISSION 1020-2 INCLUDES PASSES 98D1, 98D2, 99D1.

T O P S E C R E T

/END OF MESSAGE/

(ABOVE MESSAGE ALSO PASSED [redacted]

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